

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085526 A2

(51) International Patent Classification⁷: **D21H 27/02**,
27/30, B31F 1/07

Via del Marginone 24, Fraz. Pieve S. Paolo, I-55066 Capannori (IT).

(21) International Application Number:
PCT/IT2005/000114

(74) Agents: **MANNUCCI, Michele** et al.; Uff. Tecn. Ing. A. Mannucci S.r.l., Via della Scala, 4, I-50123 Firenze (IT).

(22) International Filing Date: 1 March 2005 (01.03.2005)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
FI2004A000053 4 March 2004 (04.03.2004) IT

(71) Applicant (for all designated States except US): **FABIO PERINI S.P.A.** [IT/IT]; Via per Mugnano, I-55100 Lucca (IT).

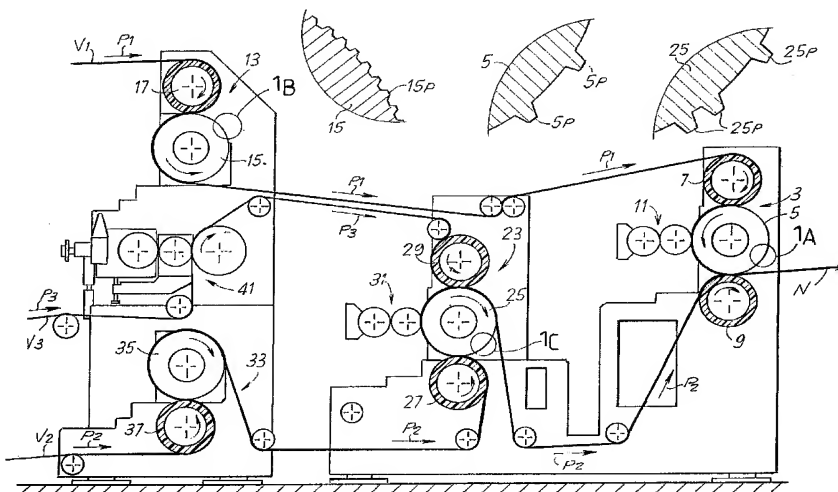
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NENCIONI, Giovanni** [IT/IT]; Via del Giardino 66/F, I-56019 Vecchiano (IT). **MADDALENI, Romano** [IT/IT]; Via Valdinievole Sud 102, I-56031 Bientina (IT). **GELLI, Mauro** [IT/IT];

[Continued on next page]

(54) Title: MULTI-PLY PAPER PRODUCT OR THE LIKE, METHOD FOR THE PRODUCTION THEREOF AND RELATIVE SYSTEM



(57) Abstract: A device is provided to produce an embossed multi-ply material, comprising: a first embossing-laminating unit (3) comprising a first embossing cylinder (5) equipped with first projections (5P) defining a first pattern, a first pressure roller (7) cooperating with said first embossing cylinder (5), a first laminating roller (9) and a first glue dispenser (11), disposed between said first pressure roller (7) and said first laminating roller (9); an embossing unit comprising at least a second embossing cylinder (25) provided with second projections (25P) defining a second pattern and a second pressure roller (27) cooperating with said second embossing cylinder (25); a first path (P1) for at least a first ply (V1) towards and through said first embossing-laminating unit (3); a second path (P2) for at least a second ply (V2) towards and through said second embossing unit (23); a third path (P3) for said third ply (V3).



Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.